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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/483,724	01/14/2000	Sharon S. Liu	5437-112	8756

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EXAMINER

TRUONG, THANHNGA B

ART UNIT	PAPER NUMBER
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2135

DATE MAILED: 06/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/483,724

Applicant(s)

LIU ET AL.

Examiner

Thanhnga B. Truong

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12/9/2004 (Appeal Brief).
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-22,24-43 and 45-66 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-22,24-43 and 45-66 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 January 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The Appeal Brief filed on December 09, 2004 has been carefully considered by an Appeal Conference. The conferees agreed that Elgamal et al (US 6,389,534 B1) fails to teach the limitation "customized implementation is invocable by the application without further interaction with the framework". Thus the finality of the office action mailed April 07, 2004 is now withdrawn. The office regrets any inconvenience due to the applicant. The examiner in charge has left the office. The present application has been reassigned to the present examiner, who has thoroughly reviewed and searched the present invention. Claims 1, 3-22, 24-43 and 45-66 are pending.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-16, 22-37 and 43-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Elgamal et al (US 6,389,534 B1), and further in view of Guheen et al (US 6,615,166 B1).

With respect to Claim 1, the limitation "receiving a request from the application for a customized implementation of a service" is met on column 4, lines 15-23.

The limitation "determining a set of zero or more restrictions to be imposed upon said customized implementation" is met on column 3, lines 50-58.

The limitation "dynamically constructing said customized implementation, said customized implementation incorporating said restrictions, and comprising enforcement logic for enforcing said restrictions; and providing said customized implementation to the application" is met on column 3, lines 40-45.

Although Elgamal et al teaches the claimed subject matter, Elgamal is silent about "wherein said customized implementation is invocable by the application without

further interaction with the framework.” This limitation is met by Guheen on column 43, lines 54-67. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine the teaching of Guheen into Elgamal’s system to conveying information regarding a web architecture framework and more particularly to demonstrating priority among components of a system that are required for implementation of technology. The ordinary skilled person would have been motivated to to combine the teaching of Guheen into Elgamal’s system since a person can absorb and manipulate information placed in a visual or graphical context much faster than if the same information is represented merely by alphanumeric text or conveyed verbally. The person is also much more likely to retain that information. However, a balance must be maintained between presenting information in a manner so as to be more likely to be retained by the viewer and keeping the graphic presentation simple enough to be easily and quickly comprehended (column 1, lines 23-31 of Guheen).

With respect to Claim 3, the limitation “wherein the system further comprises a general implementation for said service, wherein said general implementation is unrestricted, and wherein said customized implementation further incorporates said general implementation” is met on column 5, lines 39-42.

With respect to Claim 4, the limitation “wherein said enforcement logic enforces said restrictions on said general implementation” is met on column 5, lines 29-39.

With respect to Claim 5, the limitation “wherein said enforcement logic is invoked upon initialization of said customized implementation” is met on column 5, lines 3-8 and column 4, lines 15-23.

With respect to Claim 6, the limitation “wherein said enforcement logic, when invoked receives a set of desired parameters from the application determines whether the desired parameters exceed said restrictions; and in response to a determination that the desired parameters exceed said restrictions, preventing said customized implementation from operating” is met on column 5, lines 29-39.

With respect to Claim 7, the limitation “wherein said service is an encryption/decryption service, and wherein said enforcement logic, when invoked

determines whether a particular exemption mechanism has been invoked; and in response to a determination that the particular exemption mechanism has not been invoked, preventing said customized implementation from operating" is met on column 6, lines 19-29.

With respect to Claim 8, the limitation "wherein determining the set of zero or more restrictions comprises accessing information specifying one or more limitations; and processing said limitations to derive said restrictions" is met on column 6, lines 23-31.

With respect to Claim 9, the limitation "wherein said service is an encryption/decryption service, and wherein said information comprises a set of one or more default encryption limitations" is met on column 6, lines 16-22.

With respect to Claim 10, the limitation "wherein said default encryption limitations are derived by merging multiple jurisdiction policies and extracting therefrom the most restrictive encryption limitation" is met on column 3, lines 55-58.

With respect to Claim 11, the limitation "wherein determining the set of zero or more restrictions comprises accessing information specifying one or more limitations determining permissions, if any, granted to the application; and reconciling said limitations and said permissions to derive said restrictions" is met on column 6, lines 16-29.

With respect to Claim 12, the limitation "wherein said limitations and said permissions are reconciled to derive restrictions which are least restrictive" is met on column 6, lines 16-29 and column 9, lines 51-56.

With respect to Claim 13, the limitation "wherein said service is an encryption/decryption service, and wherein said information comprises a set of one or more default encryption limitations, and a set of zero or more exempt encryption limitations which apply when one or more exemption mechanisms are implemented" is met on column 6, lines 23-31.

With respect to Claim 14, the limitation "wherein said default encryption limitations and said exempt encryption limitations are derived by merging multiple

jurisdiction policies and extracting therefrom the most restrictive encryption limitations” is met on column 3, lines 55-58.

With respect to Claim 15, the limitation “wherein reconciling said limitations and said permissions comprises determining whether the application has been granted any permissions; and in response to a determination that the application has not been granted any permissions, deriving said restrictions from said set of default encryption limitations” is met on column 9, lines 46-51.

With respect to Claim 16, the limitation “wherein reconciling said limitations and said permissions comprises determining whether the application has been granted any permissions which require implementation of a particular exemption mechanism; in response to a determination that the application has been granted a permission which requires implementation of a particular exemption mechanism determining whether said exempt encryption limitations allow said particular exemption mechanism to be implemented; and in response to a determination that said exempt encryption limitations allow said particular exemption mechanism to be implemented, deriving said restrictions from said set of exempt encryption limitations” is met on column 7, lines 6-15.

With respect to Claims 22 and 43, its limitation is similar to Claim 1 limitation and hence its rejection can be found above.

With respect to Claims 24 and 45, its limitation is similar to Claim 3 limitation and hence its rejection can be found above.

With respect to Claims 25 and 46, its limitation is similar to Claim 4 limitation and hence its rejection can be found above.

With respect to Claims 26 and 47, its limitation is similar to Claim 5 limitation and hence its rejection can be found above.

With respect to Claims 27 and 48, its limitation is similar to Claim 6 limitation and hence its rejection can be found above.

With respect to Claims 28 and 49, its limitation is similar to Claim 7 limitation and hence its rejection can be found above.

With respect to Claims 29 and 50, its limitation is similar to Claim 8 limitation and hence its rejection can be found above.

With respect to Claims 30 and 51, its limitation is similar to Claim 9 limitation and hence its rejection can be found above.

With respect to Claims 31 and 52, its limitation is similar to Claim 10 limitation and hence its rejection can be found above.

With respect to Claims 32 and 53, its limitation is similar to Claim 11 limitation and hence its rejection can be found above.

With respect to Claims 33 and 54, its limitation is similar to Claim 12 limitation and hence its rejection can be found above.

With respect to Claims 34 and 55, its limitation is similar to Claim 13 limitation and hence its rejection can be found above.

With respect to Claims 35 and 56, its limitation is similar to Claim 14 limitation and hence its rejection can be found above.

With respect to Claims 36 and 57, its limitation is similar to Claim 15 limitation and hence its rejection can be found above.

With respect to Claims 37 and 58, its limitation is similar to Claim 16 limitation and hence its rejection can be found above.

4. Claims 17-21, 38-42 and 59-63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Elgamal (US 6,389,534 B1), further in view of Guheen et al (US 6,615,166 B1), and further in view of Schell et al (US 5,933,503).

With respect to Claim 17, Elgamal meets all the limitation except that of a wrapper object being implemented and a dynamic implementation being utilized.

The limitation "wherein the system further comprises a general implementation for said service, and wherein dynamically constructing said customized implementation comprises" is met by Schell on column 6, lines 36-39.

The limitation "instantiating the general implementation to give rise to a general implementation instance instantiating a wrapper object; and encapsulating said general implementation instance and said restrictions within said wrapper object to derive said customized implementation" is met by Schell on column 8, lines 6-10.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Schell within the system of Elgamal so as to make the system tamper proof.

With respect to Claim 18, Elgamal meets all the limitation except that of a wrapper object being implemented.

The limitation "wherein said wrapper object comprises one or more invocable methods, wherein said general implementation instance comprises one or more invocable methods, and wherein encapsulating comprises mapping one or more of the invocable methods of said wrapper object to one or more of the invocable methods of said general implementation instance" is met by Schell on column 9, lines 32-35 and 46-55.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Schell within the system of Elgamal so as to make the system tamper proof.

With respect to Claim 19, Elgamal meets all the limitation except that of the wrapper object being implemented.

The limitation "wherein said wrapper object comprises initialization logic for enforcing said restrictions on said general implementation instance" is met by Schell on column 9, lines 42-45.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Schell within the system of Elgamal so as to make the system tamper proof.

With respect to Claim 20, Elgamal meets all the limitation except that of an initialization logic being invoked.

The limitation "wherein said initialization logic is invoked prior to allowing any of the invocable methods of said general implementation instance to be invoked" is met by Schell on column 9, lines 36-41.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Schell within the system of Elgamal so as to initialize the system.

With respect to Claim 21, Elgamal meets all the limitation except the limitation described in Claim 21.

The limitation "instantiating an exemption mechanism to give rise to an exemption mechanism instance and encapsulating said exemption mechanism instance within said wrapper object" is met by Schell on column 8, lines 6-20.

It would have been obvious to one of ordinary skill in the art to combine the teachings of Schell within the system of Elgamal so as to prevent an external attacker from gaining knowledge of what is contained within the system.

With respect to Claims 38 and 59, its limitation is similar to Claim 17 limitation and hence its rejection can be found above.

With respect to Claims 39 and 60, its limitation is similar to Claim 18 limitation and hence its rejection can be found above.

With respect to Claims 40 and 61, its limitation is similar to Claim 19 limitation and hence its rejection can be found above.

With respect to Claim 41 and 62, its limitation is similar to Claim 20 limitation and hence its rejection can be found above.

With respect to Claim 42 and 63, its limitation is similar to Claim 21 rejection and hence its rejection can be found above.

5. Claims 64-66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Elgamal (US 6,389,534 B1), and further in view of Guheen et al (US 6,615,166 B1) and Fieres et al (US 6,148,083).

With respect to Claims 64-66, the claimed subject matter is met by both Elgamal and Guheen. The limitation of a framework comprising Java Cryptography Extension to Java Platform is also met by Guheen on column 74, lines 1-9 and by Fieres on column 4, lines 49-67 through column 5, lines 1-6.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Guheen and Fieres within the system of Elgamal because the Java platform provides a uniform programming interface to a 100% Pure Java program regardless of the underlying operating system. The ordinary skilled person would have been motivated to combine the teaching of Guheen

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and Fieres into Elgamal's system since an application which requests cryptographic services from various service elements within an international cryptography framework is identified through a certificate to protect against the misuse of a granted level of cryptography (Fieres' abstract).

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a. Klemba et al (US 5,907,620) discloses a cryptographic framework consists of four basic service elements that include a national flag card, a cryptographic unit, a host system, and a network security server (see abstract).

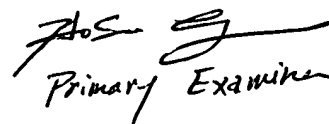
b. Aditham et al (US 6,378,001 B1) discloses collaborative framework with shared objects (see title).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhnga (Tanya) Truong whose telephone number is 571-272-3858.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached at 571-272-3859. The fax and phone numbers for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

TBT
May 29, 2005


Primary Examiner
AU 2135